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#15

## RAW SEQUENCE LISTING

DATE: 11/27/2002

PATENT APPLICATION: US/09/674,014A

TIME: 09:07:22

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\11272002\I674014A.raw

4 <110> APPLICANT: Perlan Therapeutics  
5 Fang, Fang  
7 <120> TITLE OF INVENTION: Identifying Ligands of Target Proteins With Target  
8 Complementary Library Technology (TCLT)  
10 <130> FILE REFERENCE: 014357-0278746  
12 <140> CURRENT APPLICATION NUMBER: 09/674,014A  
13 <141> CURRENT FILING DATE: 2001-02-08  
15 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/06537  
16 <151> PRIOR FILING DATE: 1999-04-19  
18 <150> PRIOR APPLICATION NUMBER: US 60/083,046  
19 <151> PRIOR FILING DATE: 1998-04-24  
21 <160> NUMBER OF SEQ ID NOS: 27  
23 <170> SOFTWARE: PatentIn Ver. 2.0  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 15  
27 <212> TYPE: RNA  
28 <213> ORGANISM: Artificial Sequence  
30 <220> FEATURE:  
31 <223> OTHER INFORMATION: Description of Artificial Sequence: sense strand of  
32 target gene  
34 <400> SEQUENCE: 1  
36 cuuuguuuucu uuuuuu  
38 <210> SEQ ID NO: 2  
39 <211> LENGTH: 4  
40 <212> TYPE: PRT  
41 <213> ORGANISM: Artificial Sequence  
43 <220> FEATURE:  
44 <223> OTHER INFORMATION: Description of Artificial Sequence: sense strand of  
45 target gene encoded peptide  
47 <400> SEQUENCE: 2  
49 Leu Val Leu Phe  
50 1  
53 <210> SEQ ID NO: 3  
54 <211> LENGTH: 4  
55 <212> TYPE: PRT  
56 <213> ORGANISM: Artificial Sequence  
58 <220> FEATURE:  
59 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-sense  
60 peptide encoded by anti-sense strand  
62 <400> SEQUENCE: 3  
64 Lys Lys Asn Lys  
65 1  
68 <210> SEQ ID NO: 4

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69 <211> LENGTH: 12
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-sense
75     strand
77 <400> SEQUENCE: 4
79 aaaaagaaca ag                                12
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 4
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-sense
88     peptide encoded by anti-sense strand
90 <400> SEQUENCE: 5
92 Glu Gln Glu Lys
93     1
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 12
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-sense
103     strand
105 <400> SEQUENCE: 6
107 gaacaagaaa aa                                12
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 20
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
117     degenerate BglI deoxyoligonucleotide fragment
119 <220> FEATURE:
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (1)..(20)
122 <223> OTHER INFORMATION: phosphoramidite nucleotides
124 <400> SEQUENCE: 7
126 ctgtcagggc ccgaggggct                        20
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 22
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
136     degenerate BglI deoxyoligonucleotide fragment
138 <220> FEATURE:
139 <221> NAME/KEY: modified_base

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140 <222> LOCATION: (1)..(22)
141 <223> OTHER INFORMATION: phosphoramidite nucleotides
143 <400> SEQUENCE: 8
144 ggggccgctg cggcctgtca gg                22
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 5
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: ICAM-1 domain
154     D1 residues 1-5 peptide target for human
155     rhinovirus (HRV)
157 <400> SEQUENCE: 9
159 Gln Thr Ser Val Ser
160   1           5
163 <210> SEQ ID NO: 10
164 <211> LENGTH: 6
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: ICAM-1 domain
170     D1 residues 24-29 peptide target for human
171     rhinovirus (HRV)
173 <400> SEQUENCE: 10
175 Ser Cys Asp Gln Pro Lys
176   1           5
179 <210> SEQ ID NO: 11
180 <211> LENGTH: 10
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: ICAM-1 domain
186     D1 residues 40-49 peptide target for human
187     rhinovirus (HRV)
189 <400> SEQUENCE: 11
191 Lys Glu Leu Leu Leu Pro Gly Asn Asn Arg
192   1           5           10
195 <210> SEQ ID NO: 12
196 <211> LENGTH: 8
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence: ICAM-1 domain
202     D1 residues 70-77 peptide target for human
203     rhinovirus (HRV)
205 <400> SEQUENCE: 12
207 Pro Asp Gly Gln Ser Thr Ala Lys
208   1           5
211 <210> SEQ ID NO: 13

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TIME: 09:07:22

Input Set : A:\Sequence listing.txt

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```

212 <211> LENGTH: 14
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: general
218     sequence of framework 2 (FR2) region from V-H1
219     family heavy chain
221 <220> FEATURE:
222 <221> NAME/KEY: MOD_RES
223 <222> LOCATION: (3)
224 <223> OTHER INFORMATION: Xaa = Arg or Gln
226 <220> FEATURE:
227 <221> NAME/KEY: MOD_RES
228 <222> LOCATION: (6)
229 <223> OTHER INFORMATION: Xaa = Pro, His or Thr
231 <220> FEATURE:
232 <221> NAME/KEY: MOD_RES
233 <222> LOCATION: (7)
234 <223> OTHER INFORMATION: Xaa = Gly or Ala
236 <220> FEATURE:
237 <221> NAME/KEY: MOD_RES
238 <222> LOCATION: (8)
239 <223> OTHER INFORMATION: Xaa = Lys or Gln
241 <220> FEATURE:
242 <221> NAME/KEY: MOD_RES
243 <222> LOCATION: (9)
244 <223> OTHER INFORMATION: Xaa = Gly, Glu, Arg or Ala
246 <220> FEATURE:
247 <221> NAME/KEY: MOD_RES
248 <222> LOCATION: (11)
249 <223> OTHER INFORMATION: Xaa = Glu or Gly
251 <220> FEATURE:
252 <221> NAME/KEY: MOD_RES
253 <222> LOCATION: (13)
254 <223> OTHER INFORMATION: Xaa = Met or Ile
256 <400> SEQUENCE: 13
W--> 258 Trp Val Xaa Gln Ala Xaa Xaa Xaa Xaa Leu Xaa Trp Xaa Gly
      1           5           10
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 14
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence: general
269     sequence of framework 2 (FR2) region from V-H2
270     family heavy chain
272 <400> SEQUENCE: 14
274 Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Ala
275 1           5           10

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PATENT APPLICATION: US/09/674,014A

TIME: 09:07:22

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\11272002\I674014A.raw

```

278 <210> SEQ ID NO: 15
279 <211> LENGTH: 14
280 <212> TYPE: PRT
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of Artificial Sequence: general
285     sequence of framework 2 (FR2) region from V-H3
286     family heavy chain
288 <220> FEATURE:
289 <221> NAME/KEY: MOD_RES
290 <222> LOCATION: (2)
291 <223> OTHER INFORMATION: Xaa = Val or Ile
293 <220> FEATURE:
294 <221> NAME/KEY: MOD_RES
295 <222> LOCATION: (3)
296 <223> OTHER INFORMATION: Xaa = Arg or His
298 <220> FEATURE:
299 <221> NAME/KEY: MOD_RES
300 <222> LOCATION: (6)
301 <223> OTHER INFORMATION: Xaa = Pro or Gln
303 <220> FEATURE:
304 <221> NAME/KEY: MOD_RES
305 <222> LOCATION: (10)
306 <223> OTHER INFORMATION: Xaa = Leu or Pro
308 <220> FEATURE:
309 <221> NAME/KEY: MOD_RES
310 <222> LOCATION: (11)
311 <223> OTHER INFORMATION: Xaa = Glu or Val
313 <220> FEATURE:
314 <221> NAME/KEY: MOD_RES
315 <222> LOCATION: (12)
316 <223> OTHER INFORMATION: Xaa = Trp, Tyr or Leu
318 <220> FEATURE:
319 <221> NAME/KEY: MOD_RES
320 <222> LOCATION: (14)
321 <223> OTHER INFORMATION: Xaa = Ser, Ala or Gly
323 <400> SEQUENCE: 15
W--> 325 Trp Xaa Xaa Gln Ala Xaa Gly Lys Gly Xaa Xaa Xaa Val Xaa
      326   1           5           10
329 <210> SEQ ID NO: 16
330 <211> LENGTH: 14
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: general
336     sequence of framework 2 (FR2) region from V-H4
337     family heavy chain
339 <220> FEATURE:
340 <221> NAME/KEY: MOD_RES

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 11/27/2002  
PATENT APPLICATION: US/09/674,014A      TIME: 09:07:23

Input Set : A:\Sequence listing.txt  
Output Set: N:\CRF4\11272002\I674014A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 3,6,7,8,9,11,13  
Seq#:15; Xaa Pos. 2,3,6,10,11,12,14  
Seq#:16; Xaa Pos. 2  
Seq#:17; Xaa Pos. 9  
Seq#:19; Xaa Pos. 8,9  
Seq#:20; Xaa Pos. 10  
Seq#:21; Xaa Pos. 5,10  
Seq#:23; N Pos. 10,11,12,13,14,15  
Seq#:25; N Pos. 13,14,15,16,17,18